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Pauloski, Nicole
Liu, Li

<120> Gene Expression Profiles and Methods of Use

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<151> 2003-12-12

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 Thr Gln Val Ser Lys Gly Ile Arg Asp Asn Glu Arg Ser Gly Arg Ala
 245 250 255
 Arg Val His Val Ser Glu Glu Gly Thr Glu Pro Glu Ala Met Leu Gln
 260 265 270
 Val Leu Gly Pro Lys Pro Ala Leu Pro Ala Gly Thr Glu Asp Thr Ala
 275 280 285
 Lys Glu Asp Ala Ala Asn Arg Lys Leu Ala Lys Leu Tyr Lys Val Ser
 290 295 300
 Asn Gly Ala Gly Thr Met Ser Val Ser Leu Val Ala Asp Glu Asn Pro
 305 310 315 320
 Phe Ala Gln Gly Ala Leu Lys Ser Glu Asp Cys Phe Ile Leu Asp His
 325 330 335
 Gly Lys Asp Gly Lys Ile Phe Val Trp Lys Gly Lys Gln Ala Asn Thr
 340 345 350
 Glu Glu Arg Lys Ala Ala Leu Lys Thr Ala Ser Asp Phe Ile Thr Lys
 355 360 365
 Met Asp Tyr Pro Lys Gln Thr Gln Val Ser Val Leu Pro Glu Gly Gly
 370 375 380
 Glu Thr Pro Leu Phe Lys Gln Phe Phe Lys Asn Trp Arg Asp Pro Asp
 385 390 395 400
 Gln Thr Asp Gly Leu Gly Leu Ser Tyr Leu Ser Ser His Ile Ala Asn
 405 410 415
 Val Glu Arg Val Pro Phe Asp Ala Ala Thr Leu His Thr Ser Thr Ala
 420 425 430
 Met Ala Ala Gln His Gly Met Asp Asp Asp Gly Thr Gly Gln Lys Gln
 435 440 445
 Ile Trp Arg Ile Glu Gly Ser Asn Lys Val Pro Val Asp Pro Ala Thr
 Page 30

450

455

Tyr Gly Gln Phe Tyr Gly Gly Asp Ser Tyr Ile Ile Leu Tyr Asn Tyr
465 470 475 480

Arg His Gly Gly Arg Gln Gly Gln Ile Ile Tyr Asn Trp Gln Gly Ala
485 490 495

Gln Ser Thr Gln Asp Glu Val Ala Ala Ser Ala Ile Leu Thr Ala Gln
500 505 510

Leu Asp Glu Glu Leu Gly Gly Thr Pro Val Gln Ser Arg Val Val Gln
515 520 525

Gly Lys Glu Pro Ala His Leu Met Ser Leu Phe Gly Gly Lys Pro Met
530 535 540

Ile Ile Tyr Lys Gly Gly Thr Ser Arg Glu Gly Gly Gln Thr Ala Pro
545 550 555 560

Ala Ser Thr Arg Leu Phe Gln Val Arg Ala Asn Ser Ala Gly Ala Thr
565 570 575

Arg Ala Val Glu Val Leu Pro Lys Ala Gly Ala Leu Asn Ser Asn Asp
580 585 590

Ala Phe Val Leu Lys Thr Pro Ser Ala Ala Tyr Leu Trp Val Gly Thr
595 600 605

Gly Ala Ser Glu Ala Glu Lys Thr Gly Ala Gln Glu Leu Leu Arg Val
610 615 620

Leu Arg Ala Gln Pro Val Gln Val Ala Glu Gly Ser Glu Pro Asp Gly
625 630 635 640

Phe Trp Glu Ala Leu Gly Gly Lys Ala Ala Tyr Arg Thr Ser Pro Arg
645 650 655

Leu Lys Asp Lys Lys Met Asp Ala His Pro Pro Arg Leu Phe Ala Cys
660 665 670

Ser Asn Lys Ile Gly Arg Phe Val Ile Glu Glu Val Pro Gly Glu Leu
675 680 685

Met Gln Glu Asp Leu Ala Thr Asp Asp Val Met Leu Leu Asp Thr Trp
690 695 700

5185.ST25.txt

Asp Gln Val Phe Val Trp Val Gly Lys Asp Ser Gln Glu Glu Glu Lys
 705 710 715 720

Thr Glu Ala Leu Thr Ser Ala Lys Arg Tyr Ile Glu Thr Asp Pro Ala
 725 730 735

Asn Arg Asp Arg Arg Thr Pro Ile Thr Val Val Lys Gln Gly Phe Glu
 740 745 750

Pro Pro Ser Phe Val Gly Trp Phe Leu Gly Trp Asp Asp Asp Tyr Trp
 755 760 765

Ser Val Asp Pro Leu Asp Arg Ala Met Ala Glu Leu Ala Ala
 770 775 780

<210> 21
 <211> 1594
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 <213> Homo sapiens
 <400> 21

Met Lys Leu Tyr Val Phe Leu Val Asn Thr Gly Thr Thr Leu Thr Phe
 1 5 10 15

Asp Thr Glu Leu Thr Val Gln Thr Val Ala Asp Leu Lys His Ala Ile
 20 25 30

Gln Ser Lys Tyr Lys Ile Ala Ile Gln His Gln Val Leu Val Val Asn
 35 40 45

Gly Gly Glu Cys Met Ala Ala Asp Arg Arg Val Cys Thr Tyr Ser Ala
 50 55 60

Gly Thr Asp Thr Asn Pro Ile Phe Leu Phe Asn Lys Glu Met Ile Leu
 65 70 75 80

Cys Asp Arg Pro Pro Ala Ile Pro Lys Thr Thr Phe Ser Thr Glu Asn
 85 90 95

Asp Met Glu Ile Lys Val Glu Glu Ser Leu Met Met Pro Ala Val Phe
 100 105 110

His Thr Val Ala Ser Arg Thr Gln Leu Ala Leu Glu Met Tyr Glu Val
 115 120 125

Ala Lys Lys Leu Cys Ser Phe Cys Glu Gly Leu Val His Asp Glu His
 130 135 140

5185.ST25.txt

Leu Gln His Gln Gly Trp Ala Ala Ile Met Ala Asn Leu Glu Asp Cys
 145 150 155 160
 Ser Asn Ser Tyr Gln Lys Leu Leu Phe Lys Phe Glu Ser Ile Tyr Ser
 165 170 175
 Asn Tyr Leu Gln Ser Ile Glu Asp Ile Lys Leu Lys Leu Thr His Leu
 180 185 190
 Gly Thr Ala Val Ser Val Met Ala Lys Ile Pro Leu Leu Glu Cys Leu
 195 200 205
 Thr Arg His Ser Tyr Arg Glu Cys Leu Gly Arg Leu Asp Ser Leu Pro
 210 215 220
 Glu His Glu Asp Ser Glu Lys Ala Glu Thr Lys Arg Ser Thr Glu Leu
 225 230 235 240
 Val Leu Ser Pro Asp Met Pro Arg Thr Thr Asn Glu Ser Leu Leu Thr
 245 250 255
 Ser Phe Pro Lys Ser Val Glu His Val Ser Pro Asp Thr Ala Asp Ala
 260 265 270
 Glu Ser Gly Lys Glu Ile Arg Glu Ser Cys Gln Ser Thr Val His Gln
 275 280 285
 Gln Asp Glu Thr Thr Ile Asp Thr Lys Asp Gly Asp Leu Pro Phe Phe
 290 295 300
 Asn Val Ser Leu Leu Asp Trp Ile Asn Val Gln Asp Arg Pro Asn Asp
 305 310 315 320
 Val Glu Ser Leu Val Arg Lys Cys Phe Asp Ser Met Ser Arg Leu Asp
 325 330 335
 Pro Arg Ile Ile Arg Pro Phe Ile Ala Glu Cys Arg Gln Thr Ile Ala
 340 345 350
 Lys Leu Asp Asn Gln Asn Met Lys Ala Ile Lys Gly Leu Glu Asp Arg
 355 360 365
 Leu Tyr Ala Leu Asp Gln Met Ile Ala Ser Cys Gly Arg Leu Val Asn
 370 375 380
 Glu Gln Lys Glu Leu Ala Gln Gly Phe Leu Ala Asn Gln Lys Arg Ala
 385 390 395 400

5185.ST25.txt

Glu Asn Leu Lys Asp Ala Ser Val Leu Pro Asp Leu Cys Leu Ser His
405 410 415

Ala Asn Gln Leu Met Ile Met Leu Gln Asn His Arg Lys Leu Leu Asp
420 425 430

Ile Lys Gln Lys Cys Thr Thr Ala Lys Gln Glu Leu Ala Asn Asn Leu
435 440 445

His Val Arg Leu Lys Trp Cys Cys Phe Val Met Leu His Ala Asp Gln
450 455 460

Asp Gly Glu Lys Leu Gln Ala Leu Leu Arg Leu Val Ile Glu Leu Leu
465 470 475 480

Glu Arg Val Lys Ile Val Glu Ala Leu Ser Thr Val Pro Gln Met Tyr
485 490 495

Cys Leu Ala Val Val Glu Val Val Arg Arg Lys Met Phe Ile Lys His
500 505 510

Tyr Arg Glu Trp Ala Gly Ala Leu Val Lys Asp Gly Lys Arg Leu Tyr
515 520 525

Glu Ala Glu Lys Ser Lys Arg Glu Ser Phe Gly Lys Leu Phe Arg Lys
530 535 540

Ser Phe Leu Arg Asn Arg Leu Phe Arg Gly Leu Asp Ser Trp Pro Pro
545 550 555 560

Ser Phe Cys Thr Gln Lys Pro Arg Lys Phe Asp Cys Glu Leu Pro Asp
565 570 575

Ile Ser Leu Lys Asp Leu Gln Phe Leu Gln Ser Phe Cys Pro Ser Glu
580 585 590

Val Gln Pro Phe Leu Arg Val Pro Leu Leu Cys Asp Phe Glu Pro Leu
595 600 605

His Gln His Val Leu Ala Leu His Asn Leu Val Lys Ala Ala Gln Ser
610 615 620

Leu Asp Glu Met Ser Gln Thr Ile Thr Asp Leu Leu Ser Glu Gln Lys
625 630 635 640

Ala Ser Val Ser Gln Thr Ser Pro Gln Ser Ala Ser Ser Pro Arg Met
645 650 655

5185.ST25.txt

Glu Ser Thr Ala Gly Ile Thr Thr Thr Thr Ser Pro Arg Thr Pro Pro
660 665 670

Pro Leu Thr Val Gln Asp Pro Leu Cys Pro Ala Val Cys Pro Leu Glu
675 680 685

Glu Leu Ser Pro Asp Ser Ile Asp Ala His Thr Phe Asp Phe Glu Thr
690 695 700

Ile Pro His Pro Asn Ile Glu Gln Thr Ile His Gln Val Ser Leu Asp
705 710 715 720

Leu Asp Ser Leu Ala Glu Ser Pro Glu Ser Asp Phe Met Ser Ala Val
725 730 735

Asn Glu Phe Val Ile Glu Glu Asn Leu Ser Ser Pro Asn Pro Ile Ser
740 745 750

Asp Pro Gln Ser Pro Glu Met Met Val Glu Ser Leu Tyr Ser Ser Val
755 760 765

Ile Asn Ala Ile Asp Ser Arg Arg Met Gln Asp Thr Asn Val Cys Gly
770 775 780

Lys Glu Asp Phe Gly Asp His Thr Ser Leu Asn Val Gln Leu Glu Arg
785 790 795 800

Cys Arg Val Val Ala Gln Asp Ser His Phe Ser Ile Gln Thr Ile Lys
805 810 815

Glu Asp Leu Cys His Phe Arg Thr Phe Val Gln Lys Glu Gln Cys Asp
820 825 830

Phe Ser Asn Ser Leu Lys Cys Thr Ala Val Glu Ile Arg Asn Ile Ile
835 840 845

Glu Lys Val Lys Cys Ser Leu Glu Ile Thr Leu Lys Glu Lys His Gln
850 855 860

Lys Glu Leu Leu Ser Leu Lys Asn Glu Tyr Glu Gly Lys Leu Asp Gly
865 870 875 880

Leu Ile Lys Glu Thr Glu Glu Asn Glu Asn Lys Ile Lys Lys Leu Lys
885 890 895

Gly Glu Leu Val Cys Leu Glu Glu Val Leu Gln Asn Lys Asp Asn Glu

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          900                      905                      910
Phe Ala Leu Val Lys His Glu Lys Glu Ala Val Ile Cys Leu Gln Asn
      915                      920                      925
Glu Lys Asp Gln Lys Leu Leu Glu Met Glu Asn Ile Met His Ser Gln
      930                      935                      940
Asn Cys Glu Ile Lys Glu Leu Lys Gln Ser Arg Glu Ile Val Leu Glu
      945                      950                      955                      960
Asp Leu Lys Lys Leu His Val Glu Asn Asp Glu Lys Leu Gln Leu Leu
      965                      970                      975
Arg Ala Glu Leu Gln Ser Leu Glu Gln Ser His Leu Lys Glu Leu Glu
      980                      985                      990
Asp Thr Leu Gln Val Arg His Ile Gln Glu Phe Glu Lys Val Met Thr
      995                      1000                      1005
Asp His Arg Val Ser Leu Glu Glu Leu Lys Lys Glu Asn Gln Gln
      1010                      1015                      1020
Ile Ile Asn Gln Ile Gln Glu Ser His Ala Glu Ile Ile Gln Glu
      1025                      1030                      1035
Lys Glu Lys Gln Leu Gln Glu Leu Lys Leu Lys Val Ser Asp Leu
      1040                      1045                      1050
Ser Asp Thr Arg Cys Lys Leu Glu Val Glu Leu Ala Leu Lys Glu
      1055                      1060                      1065
Ala Glu Thr Asp Glu Ile Lys Ile Leu Leu Glu Glu Ser Arg Ala
      1070                      1075                      1080
Gln Gln Lys Glu Thr Leu Lys Ser Leu Leu Glu Gln Glu Thr Glu
      1085                      1090                      1095
Asn Leu Arg Thr Glu Ile Ser Lys Leu Asn Gln Lys Ile Gln Asp
      1100                      1105                      1110
Asn Asn Glu Asn Tyr Gln Val Gly Leu Ala Glu Leu Arg Thr Leu
      1115                      1120                      1125
Met Thr Ile Glu Lys Asp Gln Cys Ile Ser Glu Leu Ile Ser Arg
      1130                      1135                      1140

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5185.ST25.txt

His Glu Glu Glu Ser Asn Ile Leu Lys Ala Glu Leu Asn Lys Val
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 Thr Ser Leu His Asn Gln Ala Phe Glu Ile Glu Lys Asn Leu Lys
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 Glu Gln Ile Ile Glu Leu Gln Ser Lys Leu Asp Ser Glu Leu Ser
 1175 1180 1185
 Ala Leu Glu Arg Gln Lys Asp Glu Lys Ile Thr Gln Gln Glu Glu
 1190 1195 1200
 Lys Tyr Glu Ala Ile Ile Gln Asn Leu Glu Lys Asp Arg Gln Lys
 1205 1210 1215
 Leu Val Ser Ser Gln Glu Gln Asp Arg Glu Gln Leu Ile Gln Lys
 1220 1225 1230
 Leu Asn Cys Glu Lys Asp Glu Ala Ile Gln Thr Ala Leu Lys Glu
 1235 1240 1245
 Phe Lys Leu Glu Arg Glu Val Val Glu Lys Glu Leu Leu Glu Lys
 1250 1255 1260
 Val Lys His Leu Glu Asn Gln Ile Ala Lys Ser Pro Ala Ile Asp
 1265 1270 1275
 Ser Thr Arg Gly Asp Ser Ser Ser Leu Val Ala Glu Leu Gln Glu
 1280 1285 1290
 Lys Leu Gln Glu Glu Lys Ala Lys Phe Leu Glu Gln Leu Glu Glu
 1295 1300 1305
 Gln Glu Lys Arg Lys Asn Glu Glu Met Gln Asn Val Arg Thr Ser
 1310 1315 1320
 Leu Ile Ala Glu Gln Gln Thr Asn Phe Asn Thr Val Leu Thr Arg
 1325 1330 1335
 Glu Lys Met Arg Lys Glu Asn Ile Ile Asn Asp Leu Ser Asp Lys
 1340 1345 1350
 Leu Lys Ser Thr Met Gln Gln Gln Glu Arg Asp Lys Asp Leu Ile
 1355 1360 1365
 Glu Ser Leu Ser Glu Asp Arg Ala Arg Leu Leu Glu Glu Lys Lys
 1370 1375 1380

5185.ST25.txt

Lys Leu Glu Glu Glu Val Ser Lys Leu Arg Ser Ser Ser Phe Val
 1385 1390 1395
 Pro Ser Pro Tyr Val Ala Thr Ala Pro Glu Leu Tyr Gly Ala Cys
 1400 1405 1410
 Ala Pro Glu Leu Pro Gly Glu Ser Asp Arg Ser Ala Val Glu Thr
 1415 1420 1425
 Ala Asp Glu Gly Arg Val Asp Ser Ala Met Glu Thr Ser Met Met
 1430 1435 1440
 Ser Val Gln Glu Asn Ile His Met Leu Ser Glu Glu Lys Gln Arg
 1445 1450 1455
 Ile Met Leu Leu Glu Arg Thr Leu Gln Leu Lys Glu Glu Glu Asn
 1460 1465 1470
 Lys Arg Leu Asn Gln Arg Leu Met Ser Gln Ser Met Ser Ser Val
 1475 1480 1485
 Ser Ser Arg His Ser Glu Lys Ile Ala Ile Arg Asp Phe Gln Val
 1490 1495 1500
 Gly Asp Leu Val Leu Ile Ile Leu Asp Glu Arg His Asp Asn Tyr
 1505 1510 1515
 Val Leu Phe Thr Val Ser Pro Thr Leu Tyr Phe Leu His Ser Glu
 1520 1525 1530
 Ser Leu Pro Ala Leu Asp Leu Lys Pro Gly Glu Gly Ala Ser Gly
 1535 1540 1545
 Ala Ser Arg Arg Pro Trp Val Leu Gly Lys Val Met Glu Lys Glu
 1550 1555 1560
 Tyr Cys Gln Ala Lys Lys Ala Gln Asn Arg Phe Lys Val Pro Leu
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 Gly Thr Lys Phe Tyr Arg Val Lys Ala Val Ser Trp Asn Lys Lys
 1580 1585 1590
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<212> PRT
 <213> Homo sapiens

<400> 22

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Ala Cys Arg Arg Leu Phe Gly Pro Val Asp Ser Glu Gln Leu Ser Arg
 20 25 30

Asp Cys Asp Ala Leu Met Ala Gly Cys Ile Gln Glu Ala Arg Glu Arg
 35 40 45

Trp Asn Phe Asp Phe Val Thr Glu Thr Pro Leu Glu Gly Asp Phe Ala
 50 55 60

Trp Glu Arg Val Arg Gly Leu Gly Leu Pro Lys Leu Tyr Leu Pro Thr
 65 70 75 80

Gly Pro Arg Arg Gly Arg Asp Glu Leu Gly Gly Gly Arg Arg Pro Gly
 85 90 95

Thr Ser Pro Ala Leu Leu Gln Gly Thr Ala Glu Glu Asp His Val Asp
 100 105 110

Leu Ser Leu Ser Cys Thr Leu Val Pro Arg Ser Gly Glu Gln Ala Glu
 115 120 125

Gly Ser Pro Gly Gly Pro Gly Asp Ser Gln Gly Arg Lys Arg Arg Gln
 130 135 140

Thr Ser Met Thr Asp Phe Tyr His Ser Lys Arg Arg Leu Ile Phe Ser
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Lys Arg Lys Pro

<210> 23
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 23

Met Pro Val Ala Gly Ser Glu Leu Pro Arg Arg Pro Leu Pro Pro Ala
 1 5 10 15

Ala Gln Glu Arg Asp Ala Glu Pro Arg Pro Pro His Gly Glu Leu Gln
 20 25 30

5185.ST25.txt

Tyr Leu Gly Gln Ile Gln His Ile Leu Arg Cys Gly Val Arg Lys Asp
 35 40 45
 Asp Arg Thr Gly Thr Gly Thr Leu Ser Val Phe Gly Met Gln Ala Arg
 50 55 60
 Tyr Ser Leu Arg Asp Glu Phe Pro Leu Leu Thr Thr Lys Arg Val Phe
 65 70 75 80
 Trp Lys Gly Val Leu Glu Glu Leu Leu Trp Phe Ile Lys Gly Ser Thr
 85 90 95
 Asn Ala Lys Glu Leu Ser Ser Lys Gly Val Lys Ile Trp Asp Ala Asn
 100 105 110
 Gly Ser Arg Asp Phe Leu Asp Ser Leu Gly Phe Ser Thr Arg Glu Glu
 115 120 125
 Gly Asp Leu Gly Pro Val Tyr Gly Phe Gln Trp Arg His Phe Gly Ala
 130 135 140
 Glu Tyr Arg Asp Met Glu Ser Asp Tyr Ser Gly Gln Gly Val Asp Gln
 145 150 155 160
 Leu Gln Arg Val Ile Asp Thr Ile Lys Thr Asn Pro Asp Asp Arg Arg
 165 170 175
 Ile Ile Met Cys Ala Trp Asn Pro Arg Asp Leu Pro Leu Met Ala Leu
 180 185 190
 Pro Pro Cys His Ala Leu Cys Gln Phe Tyr Val Val Asn Ser Glu Leu
 195 200 205
 Ser Cys Gln Leu Tyr Gln Arg Ser Gly Asp Met Gly Leu Gly Val Pro
 210 215 220
 Phe Asn Ile Ala Ser Tyr Ala Leu Leu Thr Tyr Met Ile Ala His Ile
 225 230 235 240
 Thr Gly Leu Lys Pro Gly Asp Phe Ile His Thr Leu Gly Asp Ala His
 245 250 255
 Ile Tyr Leu Asn His Ile Glu Pro Leu Lys Ile Gln Leu Gln Arg Glu
 260 265 270
 Pro Arg Pro Phe Pro Lys Leu Arg Ile Leu Arg Lys Val Glu Lys Ile
 275 280 285

5185.ST25.txt

Asp Asp Phe Lys Ala Glu Asp Phe Gln Ile Glu Gly Tyr Asn Pro His
290 295 300

Pro Thr Ile Lys Met Glu Met Ala Val
305 310

<210> 24
<211> 179
<212> PRT
<213> Homo sapiens

<400> 24

Met Ala Ser Gln Asn Arg Asp Pro Ala Ala Thr Ser Val Ala Ala Ala
1 5 10 15

Arg Lys Gly Ala Glu Pro Ser Gly Gly Ala Ala Arg Gly Pro Val Gly
20 25 30

Lys Arg Leu Gln Gln Glu Leu Met Thr Leu Met Met Ser Gly Asp Lys
35 40 45

Gly Ile Ser Ala Phe Pro Glu Ser Asp Asn Leu Phe Lys Trp Val Gly
50 55 60

Thr Ile His Gly Ala Ala Gly Thr Val Tyr Glu Asp Leu Arg Tyr Lys
65 70 75 80

Leu Ser Leu Glu Phe Pro Ser Gly Tyr Pro Tyr Asn Ala Pro Thr Val
85 90 95

Lys Phe Leu Thr Pro Cys Tyr His Pro Asn Val Asp Thr Gln Gly Asn
100 105 110

Ile Cys Leu Asp Ile Leu Lys Glu Lys Trp Ser Ala Leu Tyr Asp Val
115 120 125

Arg Thr Ile Leu Leu Ser Ile Gln Ser Leu Leu Gly Glu Pro Asn Ile
130 135 140

Asp Ser Pro Leu Asn Thr His Ala Ala Glu Leu Trp Lys Asn Pro Thr
145 150 155 160

Ala Phe Lys Lys Tyr Leu Gln Glu Thr Tyr Ser Lys Gln Val Thr Ser
165 170 175

Gln Glu Pro

5185.ST25.txt

<210> 25
 <211> 736
 <212> PRT
 <213> Homo sapiens
 <400> 25

Met Lys Lys Ser Arg Ser Val Met Thr Val Met Ala Asp Asp Asn Val
 1 5 10 15

Lys Asp Tyr Phe Glu Cys Ser Leu Ser Lys Ser Tyr Ser Ser Ser
 20 25 30

Asn Thr Leu Gly Ile Asp Leu Trp Arg Gly Arg Arg Cys Cys Ser Gly
 35 40 45

Asn Leu Gln Leu Pro Pro Leu Ser Gln Arg Gln Ser Glu Arg Ala Arg
 50 55 60

Thr Pro Glu Gly Asp Gly Ile Ser Arg Pro Thr Thr Leu Pro Leu Thr
 65 70 75 80

Thr Leu Pro Ser Ile Ala Ile Thr Thr Val Ser Gln Glu Cys Phe Asp
 85 90 95

Val Glu Asn Gly Pro Ser Pro Gly Arg Ser Pro Leu Asp Pro Gln Ala
 100 105 110

Ser Ser Ser Ala Gly Leu Val Leu His Ala Thr Phe Pro Gly His Ser
 115 120 125

Gln Arg Arg Glu Ser Phe Leu Tyr Arg Ser Asp Ser Asp Tyr Asp Leu
 130 135 140

Ser Pro Lys Ala Met Ser Arg Asn Ser Ser Leu Pro Ser Glu Gln His
 145 150 155 160

Gly Asp Asp Leu Ile Val Thr Pro Phe Ala Gln Val Leu Ala Ser Leu
 165 170 175

Arg Ser Val Arg Asn Asn Phe Thr Ile Leu Thr Asn Leu His Gly Thr
 180 185 190

Ser Asn Lys Arg Ser Pro Ala Ala Ser Gln Pro Pro Val Ser Arg Val
 195 200 205

Asn Pro Gln Glu Glu Ser Tyr Gln Lys Leu Ala Met Glu Thr Leu Glu
 210 215 220

5185.ST25.txt

Glu Leu Asp Trp Cys Leu Asp Gln Leu Glu Thr Ile Gln Thr Tyr Arg
225 230 235 240

Ser Val Ser Glu Met Ala Ser Asn Lys Phe Lys Arg Met Leu Asn Arg
245 250 255

Glu Leu Thr His Leu Ser Glu Met Ser Arg Ser Gly Asn Gln Val Ser
260 265 270

Glu Tyr Ile Ser Asn Thr Phe Leu Asp Lys Gln Asn Asp Val Glu Ile
275 280 285

Pro Ser Pro Thr Gln Lys Asp Arg Glu Lys Lys Lys Lys Gln Gln Leu
290 295 300

Met Thr Gln Ile Ser Gly Val Lys Lys Leu Met His Ser Ser Ser Leu
305 310 315 320

Asn Asn Thr Ser Ile Ser Arg Phe Gly Val Asn Thr Glu Asn Glu Asp
325 330 335

His Leu Ala Lys Glu Leu Glu Asp Leu Asn Lys Trp Gly Leu Asn Ile
340 345 350

Phe Asn Val Ala Gly Tyr Ser His Asn Arg Pro Leu Thr Cys Ile Met
355 360 365

Tyr Ala Ile Phe Gln Glu Arg Asp Leu Leu Lys Thr Phe Arg Ile Ser
370 375 380

Ser Asp Thr Phe Ile Thr Tyr Met Met Thr Leu Glu Asp His Tyr His
385 390 395 400

Ser Asp Val Ala Tyr His Asn Ser Leu His Ala Ala Asp Val Ala Gln
405 410 415

Ser Thr His Val Leu Leu Ser Thr Pro Ala Leu Asp Ala Val Phe Thr
420 425 430

Asp Leu Glu Ile Leu Ala Ala Ile Phe Ala Ala Ala Ile His Asp Val
435 440 445

Asp His Pro Gly Val Ser Asn Gln Phe Leu Ile Asn Thr Asn Ser Glu
450 455 460

Leu Ala Leu Met Tyr Asn Asp Glu Ser Val Leu Glu Asn His His Leu
Page 43

5185.ST25.txt																		
465						470						475						480
Ala	Val	Gly	Phe	Lys 485	Leu	Leu	Gln	Glu	Glu 490	His	Cys	Asp	Ile	Phe 495	Met			
Asn	Leu	Thr	Lys 500	Lys	Gln	Arg	Gln	Thr 505	Leu	Arg	Lys	Met	Val 510	Ile	Asp			
Met	Val	Leu 515	Ala	Thr	Asp	Met	Ser 520	Lys	His	Met	Ser	Leu 525	Leu	Ala	Asp			
Leu	Lys 530	Thr	Met	Val	Glu	Thr 535	Lys	Lys	Val	Thr	Ser 540	Ser	Gly	Val	Leu			
Leu 545	Leu	Asp	Asn	Tyr	Thr 550	Asp	Arg	Ile	Gln	Val 555	Leu	Arg	Asn	Met	Val 560			
His	Cys	Ala	Asp	Leu 565	Ser	Asn	Pro	Thr	Lys 570	Ser	Leu	Glu	Leu	Tyr 575	Arg			
Gln	Trp	Thr	Asp 580	Arg	Ile	Met	Glu	Glu 585	Phe	Phe	Gln	Gln	Gly 590	Asp	Lys			
Glu	Arg	Glu 595	Arg	Gly	Met	Glu	Ile 600	Ser	Pro	Met	Cys	Asp 605	Lys	His	Thr			
Ala	Ser 610	Val	Glu	Lys	Ser	Gln 615	Val	Gly	Phe	Ile	Asp 620	Tyr	Ile	Val	His			
Pro 625	Leu	Trp	Glu	Thr	Trp 630	Ala	Asp	Leu	Val	Gln 635	Pro	Asp	Ala	Gln	Asp 640			
Ile	Leu	Asp	Thr	Leu 645	Glu	Asp	Asn	Arg	Asn 650	Trp	Tyr	Gln	Ser	Met 655	Ile			
Pro	Gln	Ser	Pro 660	Ser	Pro	Pro	Leu	Asp 665	Glu	Gln	Asn	Arg	Asp 670	Cys	Gln			
Gly	Leu	Met 675	Glu	Lys	Phe	Gln	Phe 680	Glu	Leu	Thr	Leu	Asp 685	Glu	Glu	Asp			
Ser	Glu 690	Gly	Pro	Glu	Lys	Glu 695	Gly	Glu	Gly	His	Ser 700	Tyr	Phe	Ser	Ser			
Thr 705	Lys	Thr	Leu	Cys	Val 710	Ile	Asp	Pro	Glu	Asn 715	Arg	Asp	Ser	Leu	Gly 720			

5185.ST25.txt
Glu Thr Asp Ile Asp Ile Ala Thr Glu Asp Lys Ser Pro Val Asp Thr
725 730 735

Met Cys Ser Ser Leu Glu Gln Ala Leu Ala Val Leu Val Thr Thr Phe
1 5 10 15

Glu Met Lys Glu Leu Leu His Lys Glu Leu Pro Ser Phe Val Gly Glu
35 40 45

Asn Ser Asp Gln Gln Val Asp Phe Gln Glu Tyr Ala Val Phe Leu Ala
65 70 75 80

Pro

Met Phe Arg Asp Phe Gly Glu Pro Gly Pro Ser Ser Gly Asn Gly Gly
1 5 10 15

Gln Lys Phe His Leu Val Pro Ser Ile Asn Thr Met Ser Gly Ser Gln
35 40 45

Pro Arg Pro Leu Thr Tyr Pro Gln Tyr Ser Pro Pro Gln Pro Arg Pro
Page 45

65		70																	80
Gly	Val	Ile	Arg	Ala	Leu	Gly	Pro	Pro	Pro	Gly	Val	Arg	Arg	Arg	Pro				
				85					90					95					
Cys	Glu	Gln	Ile	Ser	Pro	Glu	Glu	Glu	Glu	Arg	Arg	Arg	Val	Arg	Arg				
			100					105					110						
Glu	Arg	Asn	Lys	Leu	Ala	Ala	Ala	Lys	Cys	Arg	Asn	Arg	Arg	Lys	Glu				
		115					120					125							
Leu	Thr	Asp	Phe	Leu	Gln	Ala	Glu	Thr	Asp	Lys	Leu	Glu	Asp	Glu	Lys				
	130					135						140							
Ser	Gly	Leu	Gln	Arg	Glu	Ile	Glu	Glu	Leu	Gln	Lys	Gln	Lys	Glu	Arg				
145					150					155					160				
Leu	Glu	Leu	Val	Leu	Glu	Ala	His	Arg	Pro	Ile	Cys	Lys	Ile	Pro	Glu				
				165					170					175					
Gly	Ala	Lys	Glu	Gly	Asp	Thr	Gly	Ser	Thr	Ser	Gly	Thr	Ser	Ser	Pro				
			180					185					190						
Pro	Ala	Pro	Cys	Arg	Pro	Val	Pro	Cys	Ile	Ser	Leu	Ser	Pro	Gly	Pro				
		195					200					205							
Val	Leu	Glu	Pro	Glu	Ala	Leu	His	Thr	Pro	Thr	Leu	Met	Thr	Thr	Pro				
	210					215					220								
Ser	Leu	Thr	Pro	Phe	Thr	Pro	Ser	Leu	Val	Phe	Thr	Tyr	Pro	Ser	Thr				
225					230					235					240				
Pro	Glu	Pro	Cys	Ala	Ser	Ala	His	Arg	Lys	Ser	Ser	Ser	Ser	Ser	Gly				
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Asp	Pro	Ser	Ser	Asp	Pro	Leu	Gly	Ser	Pro	Thr	Leu	Leu	Ala	Leu					
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 <400> 28

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Thr Gly Ala Thr Phe Pro Glu Glu Ala Ile Ala Asp Leu Ser Val Asn
 Page 46

20

25

30

Met Tyr Asn Arg Leu Arg Ala Thr Gly Glu Asp Glu Asn Ile Leu Phe
 35 40 45

Ser Pro Leu Ser Ile Ala Leu Ala Met Gly Met Met Glu Leu Gly Ala
 50 55 60

Gln Gly Ser Thr Gln Lys Glu Ile Arg His Ser Met Gly Tyr Asp Ser
 65 70 75 80

Leu Lys Asn Gly Glu Glu Phe Ser Phe Leu Lys Glu Phe Ser Asn Met
 85 90 95

Val Thr Ala Lys Glu Ser Gln Tyr Val Met Lys Ile Ala Asn Ser Leu
 100 105 110

Phe Val Gln Asn Gly Phe His Val Asn Glu Glu Phe Leu Gln Met Met
 115 120 125

Lys Lys Tyr Phe Asn Ala Ala Val Asn His Val Asp Phe Ser Gln Asn
 130 135 140

Val Ala Val Ala Asn Tyr Ile Asn Lys Trp Val Glu Asn Asn Thr Asn
 145 150 155 160

Asn Leu Val Lys Asp Leu Val Ser Pro Arg Asp Phe Asp Ala Ala Thr
 165 170 175

Tyr Leu Ala Leu Ile Asn Ala Val Tyr Phe Lys Gly Asn Trp Lys Ser
 180 185 190

Gln Phe Arg Pro Glu Asn Thr Arg Thr Phe Ser Phe Thr Lys Asp Asp
 195 200 205

Glu Ser Glu Val Gln Ile Pro Met Met Tyr Gln Gln Gly Glu Phe Tyr
 210 215 220

Tyr Gly Glu Phe Ser Asp Gly Ser Asn Glu Ala Gly Gly Ile Tyr Gln
 225 230 235 240

Val Leu Glu Ile Pro Tyr Glu Gly Asp Glu Ile Ser Met Met Leu Val
 245 250 255

Leu Ser Arg Gln Glu Val Pro Leu Ala Thr Leu Glu Pro Leu Val Lys
 260 265 270

5185.ST25.txt

Ala Gln Leu Val Glu Glu Trp Ala Asn Ser Val Lys Lys Gln Lys Val
275 280 285

Glu Val Tyr Leu Pro Arg Phe Thr Val Glu Gln Glu Ile Asp Leu Lys
290 295 300

Asp Val Leu Lys Ala Leu Gly Ile Thr Glu Ile Phe Ile Lys Asp Ala
305 310 315 320

Asn Leu Thr Gly Leu Ser Asp Asn Lys Glu Ile Phe Leu Ser Lys Ala
325 330 335

Ile His Lys Ser Phe Leu Glu Val Asn Glu Glu Gly Ser Glu Ala Ala
340 345 350

Ala Val Ser Gly Met Ile Ala Ile Ser Arg Met Ala Val Leu Tyr Pro
355 360 365

Gln Val Ile Val Asp His Pro Phe Phe Phe Leu Ile Arg Asn Arg Arg
370 375 380

Thr Gly Thr Ile Leu Phe Met Gly Arg Val Met His Pro Glu Thr Met
385 390 395 400

Asn Thr Ser Gly His Asp Phe Glu Glu Leu
405 410

<210> 29
<211> 280
<212> PRT
<213> Homo sapiens

<400> 29

Met Leu Ser Ala Val Ala Arg Gly Tyr Gln Gly Trp Phe His Pro Cys
1 5 10 15

Ala Arg Leu Ser Val Arg Met Ser Ser Thr Gly Ile Asp Arg Lys Gly
20 25 30

Val Leu Ala Asn Arg Val Ala Val Val Thr Gly Ser Thr Ser Gly Ile
35 40 45

Gly Phe Ala Ile Ala Arg Arg Leu Ala Arg Asp Gly Ala His Val Val
50 55 60

Ile Ser Ser Arg Lys Gln Gln Asn Val Asp Arg Ala Met Ala Lys Leu
65 70 75 80

5185.ST25.txt

Gln Gly Glu Gly Leu Ser Val Ala Gly Ile Val Cys His Val Gly Lys
85 90 95

Ala Glu Asp Arg Glu Gln Leu Val Ala Lys Ala Leu Glu His Cys Gly
100 105 110

Gly Val Asp Phe Leu Val Cys Ser Ala Gly Val Asn Pro Leu Val Gly
115 120 125

Ser Thr Leu Gly Thr Ser Glu Gln Ile Trp Asp Lys Ile Leu Ser Val
130 135 140

Asn Val Lys Ser Pro Ala Leu Leu Leu Ser Gln Leu Leu Pro Tyr Met
145 150 155 160

Glu Asn Arg Arg Gly Ala Val Ile Leu Val Ser Ser Ile Ala Ala Tyr
165 170 175

Asn Pro Val Val Ala Leu Gly Val Tyr Asn Val Ser Lys Thr Ala Leu
180 185 190

Leu Gly Leu Thr Arg Thr Leu Ala Leu Glu Leu Ala Pro Lys Asp Ile
195 200 205

Arg Val Asn Cys Val Val Pro Gly Ile Ile Lys Thr Asp Phe Ser Lys
210 215 220

Val Phe His Gly Asn Glu Ser Leu Trp Lys Asn Phe Lys Glu His His
225 230 235 240

Gln Leu Gln Arg Ile Gly Glu Ser Glu Asp Cys Ala Gly Ile Val Ser
245 250 255

Phe Leu Cys Ser Pro Asp Ala Ser Tyr Val Asn Gly Glu Asn Ile Ala
260 265 270

Val Ala Gly Tyr Ser Thr Arg Leu
275 280

<210> 30
<211> 193
<212> PRT
<213> Homo sapiens
<400> 30

Met Gln Ser Leu Met Gln Ala Pro Leu Leu Ile Ala Leu Gly Leu Leu
1 5 10 15

5185.ST25.txt

Leu Ala Ala Pro Ala Gln Ala His Leu Lys Lys Pro Ser Gln Leu Ser
20 25 30

Ser Phe Ser Trp Asp Asn Cys Asp Glu Gly Lys Asp Pro Ala Val Ile
35 40 45

Arg Ser Leu Thr Leu Glu Pro Asp Pro Ile Ile Val Pro Gly Asn Val
50 55 60

Thr Leu Ser Val Met Gly Ser Thr Ser Val Pro Leu Ser Ser Pro Leu
65 70 75 80

Lys Val Asp Leu Val Leu Glu Lys Glu Val Ala Gly Leu Trp Ile Lys
85 90 95

Ile Pro Cys Thr Asp Tyr Ile Gly Ser Cys Thr Phe Glu His Phe Cys
100 105 110

Asp Val Leu Asp Met Leu Ile Pro Thr Gly Glu Pro Cys Pro Glu Pro
115 120 125

Leu Arg Thr Tyr Gly Leu Pro Cys His Cys Pro Phe Lys Glu Gly Thr
130 135 140

Tyr Ser Leu Pro Lys Ser Glu Phe Val Val Pro Asp Leu Glu Leu Pro
145 150 155 160

Ser Trp Leu Thr Thr Gly Asn Tyr Arg Ile Glu Ser Val Leu Ser Ser
165 170 175

Ser Gly Lys Arg Leu Gly Cys Ile Lys Ile Ala Ala Ser Leu Lys Gly
180 185 190

Ile

<210> 31
<211> 187
<212> PRT
<213> Homo sapiens

<400> 31

Met Ser Glu Met Ala Glu Leu Ser Glu Leu Tyr Glu Glu Ser Ser Asp
1 5 10 15

Leu Gln Met Asp Val Met Pro Gly Glu Gly Asp Leu Pro Gln Met Glu
20 25 30

5185.ST25.txt

Val Gly Ser Gly Ser Arg Glu Leu Ser Leu Arg Pro Ser Arg Ser Gly
35 40 45

Ala Gln Gln Leu Glu Glu Glu Gly Pro Met Glu Glu Glu Glu Ala Gln
50 55 60

Pro Met Ala Ala Pro Glu Gly Lys Arg Ser Leu Ala Asn Gly Pro Asn
65 70 75 80

Ala Gly Glu Gln Pro Gly Gln Val Ala Gly Ala Asp Phe Glu Ser Glu
85 90 95

Asp Glu Gly Glu Glu Phe Asp Asp Trp Glu Asp Asp Tyr Asp Tyr Pro
100 105 110

Glu Glu Glu Gln Leu Ser Gly Ala Gly Tyr Arg Val Ser Ala Ala Leu
115 120 125

Glu Glu Ala Asp Lys Met Phe Leu Arg Thr Arg Glu Pro Ala Leu Asp
130 135 140

Gly Gly Phe Gln Met His Tyr Glu Lys Thr Pro Phe Asp Gln Leu Ala
145 150 155 160

Phe Ile Glu Glu Leu Phe Ser Leu Met Val Val Asn Arg Leu Thr Glu
165 170 175

Glu Leu Gly Cys Asp Glu Ile Ile Asp Arg Glu
180 185

<210> 32
<211> 2328
<212> PRT
<213> Homo sapiens

<400> 32

Lys Ser Lys Arg Gln Ala Gln Gln Met Val Gln Pro Gln Ser Pro Val
1 5 10 15

Ala Val Ser Gln Ser Lys Pro Gly Cys Tyr Asp Asn Gly Lys His Tyr
20 25 30

Gln Ile Asn Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val
35 40 45

Cys Thr Cys Tyr Gly Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro
50 55 60

5185.ST25.txt

Glu Ala Glu Glu Thr Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg
 65 70 75 80
 Val Gly Asp Thr Tyr Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys
 85 90 95
 Thr Cys Ile Gly Ala Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn
 100 105 110
 Arg Cys His Glu Gly Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg
 115 120 125
 Arg Pro His Glu Thr Gly Gly Tyr Met Leu Glu Cys Val Cys Leu Gly
 130 135 140
 Asn Gly Lys Gly Glu Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe
 145 150 155 160
 Asp His Ala Ala Gly Thr Ser Tyr Val Val Gly Glu Thr Trp Glu Lys
 165 170 175
 Pro Tyr Gln Gly Trp Met Met Val Asp Cys Thr Cys Leu Gly Glu Gly
 180 185 190
 Ser Gly Arg Ile Thr Cys Thr Ser Arg Asn Arg Cys Asn Asp Gln Asp
 195 200 205
 Thr Arg Thr Ser Tyr Arg Ile Gly Asp Thr Trp Ser Lys Lys Asp Asn
 210 215 220
 Arg Gly Asn Leu Leu Gln Cys Ile Cys Thr Gly Asn Gly Arg Gly Glu
 225 230 235 240
 Trp Lys Cys Glu Arg His Thr Ser Val Gln Thr Thr Ser Ser Gly Ser
 245 250 255
 Gly Pro Phe Thr Asp Val Arg Ala Ala Val Tyr Gln Pro Gln Pro His
 260 265 270
 Pro Gln Pro Pro Tyr Gly His Cys Val Thr Asp Ser Gly Val Val
 275 280 285
 Tyr Ser Val Gly Met Gln Trp Leu Lys Thr Gln Gly Asn Lys Gln Met
 290 295 300
 Leu Cys Thr Cys Leu Gly Asn Gly Val Ser Cys Gln Glu Thr Ala Val
 305 310 315 320

5185.ST25.txt

Thr Gln Thr Tyr Gly 325 Gly Asn Leu Asn Gly 330 Glu Pro Cys Val 335 Leu Pro
 Phe Thr Tyr Asn 340 Gly Arg Thr Phe Tyr 345 Ser Cys Thr Thr Glu 350 Gly Arg
 Gln Asp Gly 355 His Leu Trp Cys Ser 360 Thr Thr Ser Asn Tyr 365 Glu Gln Asp
 Gln Lys 370 Tyr Ser Phe Cys Thr 375 Asp His Thr Val 380 Leu Val Gln Thr Gln
 Gly 385 Gly Asn Ser Asn Gly 390 Ala Leu Cys His Phe 395 Pro Phe Leu Tyr Asn 400
 Asn His Asn Tyr Thr 405 Asp Cys Thr Ser Glu 410 Gly Arg Arg Asp Asn 415 Met
 Lys Trp Cys Gly 420 Thr Thr Gln Asn Tyr 425 Asp Ala Asp Gln Lys 430 Phe Gly
 Phe Cys Pro 435 Met Ala Ala His Glu 440 Ile Cys Thr Thr 445 Asn Glu Gly
 Val Met 450 Tyr Arg Ile Gly Asp 455 Gln Trp Asp Lys Gln 460 His Asp Met Gly
 His Met Met Arg Cys Thr 470 Cys Val Gly Asn Gly 475 Arg Gly Glu Trp Thr 480
 Cys Ile Ala Tyr Ser 485 Gln Leu Arg Asp Gln 490 Cys Ile Val Asp Asp 495 Ile
 Thr Tyr Asn Val 500 Asn Asp Thr Phe His 505 Lys Arg His Glu 510 Glu Gly His
 Met Leu Asn 515 Cys Thr Cys Phe Gly 520 Gln Gly Arg Gly Arg 525 Trp Lys Cys
 Asp Pro Val 530 Asp Gln Cys Gln 535 Asp Ser Glu Thr Gly 540 Thr Phe Tyr Gln
 Ile Gly Asp Ser Trp Glu 550 Lys Tyr Val His Gly 555 Val Arg Tyr Gln Cys 560
 Tyr Cys Tyr Gly Arg 565 Gly Ile Gly Glu Trp 570 His Cys Gln Pro Leu 575 Gln

5185.ST25.txt

Thr Tyr Pro Ser Ser Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr
580 585 590

Pro Ser Gln Pro Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro
595 600 605

Ser His Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Lys Asn Ser Val
610 615 620

Gly Arg Trp Lys Glu Ala Thr Ile Pro Gly His Leu Asn Ser Tyr Thr
625 630 635 640

Ile Lys Gly Leu Lys Pro Gly Val Val Tyr Glu Gly Gln Leu Ile Ser
645 650 655

Ile Gln Gln Tyr Gly His Gln Glu Val Thr Arg Phe Asp Phe Thr Thr
660 665 670

Thr Ser Thr Ser Thr Pro Val Thr Ser Asn Thr Val Thr Gly Glu Thr
675 680 685

Thr Pro Phe Ser Pro Leu Val Ala Thr Ser Glu Ser Val Thr Glu Ile
690 695 700

Thr Ala Ser Ser Phe Val Val Ser Trp Val Ser Ala Ser Asp Thr Val
705 710 715 720

Ser Gly Phe Arg Val Glu Tyr Glu Leu Ser Glu Glu Gly Asp Glu Pro
725 730 735

Gln Tyr Leu Asp Leu Pro Ser Thr Ala Thr Ser Val Asn Ile Pro Asp
740 745 750

Leu Leu Pro Gly Arg Lys Tyr Ile Val Asn Val Tyr Gln Ile Ser Glu
755 760 765

Asp Gly Glu Gln Ser Leu Ile Leu Ser Thr Ser Gln Thr Thr Ala Pro
770 775 780

Asp Ala Pro Pro Asp Pro Thr Val Asp Gln Val Asp Asp Thr Ser Ile
785 790 795 800

Val Val Arg Trp Ser Arg Pro Gln Ala Pro Ile Thr Gly Tyr Arg Ile
805 810 815

Val Tyr Ser Pro Ser Val Glu Gly Ser Ser Thr Glu Leu Asn Leu Pro

820 825 830
 Glu Thr Ala Asn Ser Val Thr Leu Ser Asp Leu Gln Pro Gly Val Gln
 835 840 845
 Tyr Asn Ile Thr Ile Tyr Ala Val Glu Glu Asn Gln Glu Ser Thr Pro
 850 855 860
 Val Val Ile Gln Gln Glu Thr Thr Gly Thr Pro Arg Ser Asp Thr Val
 865 870 875 880
 Pro Ser Pro Arg Asp Leu Gln Phe Val Glu Val Thr Asp Val Lys Val
 885 890 895
 Thr Ile Met Trp Thr Pro Pro Glu Ser Ala Val Thr Gly Tyr Arg Val
 900 905 910
 Asp Val Ile Pro Val Asn Leu Pro Gly Glu His Gly Gln Arg Leu Pro
 915 920 925
 Ile Ser Arg Asn Thr Phe Ala Glu Val Thr Gly Leu Ser Pro Gly Val
 930 935 940
 Thr Tyr Tyr Phe Lys Val Phe Ala Val Ser His Gly Arg Glu Ser Lys
 945 950 955 960
 Pro Leu Thr Ala Gln Gln Thr Thr Lys Leu Asp Ala Pro Thr Asn Leu
 965 970 975
 Gln Phe Val Asn Glu Thr Asp Ser Thr Val Leu Val Arg Trp Thr Pro
 980 985 990
 Pro Arg Ala Gln Ile Thr Gly Tyr Arg Leu Thr Val Gly Leu Thr Arg
 995 1000 1005
 Arg Gly Gln Pro Arg Gln Tyr Asn Val Gly Pro Ser Val Ser Lys
 1010 1015 1020
 Tyr Pro Leu Arg Asn Leu Gln Pro Ala Ser Glu Tyr Thr Val Ser
 1025 1030 1035
 Leu Val Ala Ile Lys Gly Asn Gln Glu Ser Pro Lys Ala Thr Gly
 1040 1045 1050
 Val Phe Thr Thr Leu Gln Pro Gly Ser Ser Ile Pro Pro Tyr Asn
 1055 1060 1065

5185.ST25.txt

Thr Glu Val Thr Glu Thr Thr Ile Val Ile Thr Trp Thr Pro Ala
 1070 1075 1080
 Pro Arg Ile Gly Phe Lys Leu Gly Val Arg Pro Ser Gln Gly Gly
 1085 1090 1095
 Glu Ala Pro Arg Glu Val Thr Ser Asp Ser Gly Ser Ile Val Val
 1100 1105 1110
 Ser Gly Leu Thr Pro Gly Val Glu Tyr Val Tyr Thr Ile Gln Val
 1115 1120 1125
 Leu Arg Asp Gly Gln Glu Arg Asp Ala Pro Ile Val Asn Lys Val
 1130 1135 1140
 Val Thr Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn
 1145 1150 1155
 Pro Asp Thr Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr
 1160 1165 1170
 Pro Asp Ile Thr Gly Tyr Arg Ile Thr Thr Thr Pro Thr Asn Gly
 1175 1180 1185
 Gln Gln Gly Asn Ser Leu Glu Glu Val Val His Ala Asp Gln Ser
 1190 1195 1200
 Ser Cys Thr Phe Asp Asn Leu Ser Pro Gly Leu Glu Tyr Asn Val
 1205 1210 1215
 Ser Val Tyr Thr Val Lys Asp Asp Lys Glu Ser Val Pro Ile Ser
 1220 1225 1230
 Asp Thr Ile Ile Pro Ala Val Pro Pro Pro Thr Asp Leu Arg Phe
 1235 1240 1245
 Thr Asn Ile Gly Pro Asp Thr Met Arg Val Thr Trp Ala Pro Pro
 1250 1255 1260
 Pro Ser Ile Asp Leu Thr Asn Phe Leu Val Arg Tyr Ser Pro Val
 1265 1270 1275
 Lys Asn Glu Glu Asp Val Ala Glu Leu Ser Ile Ser Pro Ser Asp
 1280 1285 1290
 Asn Ala Val Val Leu Thr Asn Leu Leu Pro Gly Thr Glu Tyr Val
 1295 1300 1305

5185.ST25.txt

Val Ser Val Ser Ser Val Tyr Glu Gln His Glu Ser Thr Pro Leu
 1310 1315 1320
 Arg Gly Arg Gln Lys Thr Gly Leu Asp Ser Pro Thr Gly Ile Asp
 1325 1330 1335
 Phe Ser Asp Ile Thr Ala Asn Ser Phe Thr Val His Trp Ile Ala
 1340 1345 1350
 Pro Arg Ala Thr Ile Thr Gly Tyr Arg Ile Arg His His Pro Glu
 1355 1360 1365
 His Phe Ser Gly Arg Pro Arg Glu Asp Arg Val Pro His Ser Arg
 1370 1375 1380
 Asn Ser Ile Thr Leu Thr Asn Leu Thr Pro Gly Thr Glu Tyr Val
 1385 1390 1395
 Val Ser Ile Val Ala Leu Asn Gly Arg Glu Glu Ser Pro Leu Leu
 1400 1405 1410
 Ile Gly Gln Gln Ser Thr Val Ser Asp Val Pro Arg Asp Leu Glu
 1415 1420 1425
 Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala
 1430 1435 1440
 Pro Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr
 1445 1450 1455
 Gly Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys
 1460 1465 1470
 Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr
 1475 1480 1485
 Ile Thr Val Tyr Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser
 1490 1495 1500
 Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys Pro
 1505 1510 1515
 Ser Gln Met Gln Val Thr Asp Val Gln Asp Asn Ser Ile Ser Val
 1520 1525 1530
 Lys Trp Leu Pro Ser Ser Ser Pro Val Thr Gly Tyr Arg Val Thr
 1535 1540 1545

5185.ST25.txt

Thr	Thr	Pro	Lys	Asn	Gly	Pro	Gly	Pro	Thr	Lys	Thr	Lys	Thr	Ala
	1550					1555					1560			
Gly	Pro	Asp	Gln	Thr	Glu	Met	Thr	Ile	Glu	Gly	Leu	Gln	Pro	Thr
	1565					1570					1575			
Val	Glu	Tyr	Val	Val	Ser	Val	Tyr	Ala	Gln	Asn	Pro	Ser	Gly	Glu
	1580					1585					1590			
Ser	Gln	Pro	Leu	Val	Gln	Thr	Ala	Val	Thr	Asn	Ile	Asp	Arg	Pro
	1595					1600					1605			
Lys	Gly	Leu	Ala	Phe	Thr	Asp	Val	Asp	Val	Asp	Ser	Ile	Lys	Ile
	1610					1615					1620			
Ala	Trp	Glu	Ser	Pro	Gln	Gly	Gln	Val	Ser	Arg	Tyr	Arg	Val	Thr
	1625					1630					1635			
Tyr	Ser	Ser	Pro	Glu	Asp	Gly	Ile	His	Glu	Leu	Phe	Pro	Ala	Pro
	1640					1645					1650			
Asp	Gly	Glu	Glu	Asp	Thr	Ala	Glu	Leu	Gln	Gly	Leu	Arg	Pro	Gly
	1655					1660					1665			
Ser	Glu	Tyr	Thr	Val	Ser	Val	Val	Ala	Leu	His	Asp	Asp	Met	Glu
	1670					1675					1680			
Ser	Gln	Pro	Leu	Ile	Gly	Thr	Gln	Ser	Thr	Ala	Ile	Pro	Ala	Pro
	1685					1690					1695			
Thr	Asp	Leu	Lys	Phe	Thr	Gln	Val	Thr	Pro	Thr	Ser	Leu	Ser	Ala
	1700					1705					1710			
Gln	Trp	Thr	Pro	Pro	Asn	Val	Gln	Leu	Thr	Gly	Tyr	Arg	Val	Arg
	1715					1720					1725			
Val	Thr	Pro	Lys	Glu	Lys	Thr	Gly	Pro	Met	Lys	Glu	Ile	Asn	Leu
	1730					1735					1740			
Ala	Pro	Asp	Ser	Ser	Ser	Val	Val	Val	Ser	Gly	Leu	Met	Val	Ala
	1745					1750					1755			
Thr	Lys	Tyr	Glu	Val	Ser	Val	Tyr	Ala	Leu	Lys	Asp	Thr	Leu	Thr
	1760					1765					1770			
Ser	Arg	Pro	Ala	Gln	Gly	Val	Val	Thr	Thr	Leu	Glu	Asn	Val	Ser

1775

1780

Pro	Pro	Arg	Arg	Ala	Arg	Val	Thr	Asp	Ala	Thr	Glu	Thr	Thr	Ile
1790						1795					1800			
Thr	Ile	Ser	Trp	Arg	Thr	Lys	Thr	Glu	Thr	Ile	Thr	Gly	Phe	Gln
1805						1810					1815			
Val	Asp	Ala	Val	Pro	Ala	Asn	Gly	Gln	Thr	Pro	Ile	Gln	Arg	Thr
1820						1825					1830			
Ile	Lys	Pro	Asp	Val	Arg	Ser	Tyr	Thr	Ile	Thr	Gly	Leu	Gln	Pro
1835						1840					1845			
Gly	Thr	Asp	Tyr	Lys	Ile	Tyr	Leu	Tyr	Thr	Leu	Asn	Asp	Asn	Ala
1850						1855					1860			
Arg	Ser	Ser	Pro	Val	Val	Ile	Asp	Ala	Ser	Thr	Ala	Ile	Asp	Ala
1865						1870					1875			
Pro	Ser	Asn	Leu	Arg	Phe	Leu	Ala	Thr	Thr	Pro	Asn	Ser	Leu	Leu
1880						1885					1890			
Val	Ser	Trp	Gln	Pro	Pro	Arg	Ala	Arg	Ile	Thr	Gly	Tyr	Ile	Ile
1895						1900					1905			
Lys	Tyr	Glu	Lys	Pro	Gly	Ser	Pro	Pro	Arg	Glu	Val	Val	Pro	Arg
1910						1915					1920			
Pro	Arg	Pro	Gly	Val	Thr	Glu	Ala	Thr	Ile	Thr	Gly	Leu	Glu	Pro
1925						1930					1935			
Gly	Thr	Glu	Tyr	Thr	Ile	Tyr	Val	Ile	Ala	Leu	Lys	Asn	Asn	Gln
1940						1945					1950			
Lys	Ser	Glu	Pro	Leu	Ile	Gly	Arg	Lys	Lys	Thr	Asp	Glu	Leu	Pro
1955						1960					1965			
Gln	Leu	Val	Thr	Leu	Pro	His	Pro	Asn	Leu	His	Gly	Pro	Glu	Ile
1970						1975					1980			
Leu	Asp	Val	Pro	Ser	Thr	Val	Gln	Lys	Thr	Pro	Phe	Val	Thr	His
1985						1990					1995			
Pro	Gly	Tyr	Asp	Thr	Gly	Asn	Gly	Ile	Gln	Leu	Pro	Gly	Thr	Ser
2000						2005					2010			

Gly Gln Gln Pro Ser Val Gly Gln Gln Met Ile Phe Glu Glu His
 2015 2020 2025
 Gly Phe Arg Arg Thr Thr Pro Pro Thr Thr Ala Thr Pro Ile Arg
 2030 2035 2040
 His Arg Pro Arg Pro Tyr Pro Pro Asn Val Gly Gln Glu Ala Leu
 2045 2050 2055
 Ser Gln Thr Thr Ile Ser Trp Ala Pro Phe Gln Asp Thr Ser Glu
 2060 2065 2070
 Tyr Ile Ile Ser Cys His Pro Val Gly Thr Asp Glu Glu Pro Leu
 2075 2080 2085
 Gln Phe Arg Val Pro Gly Thr Ser Thr Ser Ala Thr Leu Thr Gly
 2090 2095 2100
 Leu Thr Arg Gly Ala Thr Tyr Asn Ile Ile Val Glu Ala Leu Lys
 2105 2110 2115
 Asp Gln Gln Arg His Lys Val Arg Glu Glu Val Val Thr Val Gly
 2120 2125 2130
 Asn Ser Val Asn Glu Gly Leu Asn Gln Pro Thr Asp Asp Ser Cys
 2135 2140 2145
 Phe Asp Pro Tyr Thr Val Ser His Tyr Ala Val Gly Asp Glu Trp
 2150 2155 2160
 Glu Arg Met Ser Glu Ser Gly Phe Lys Leu Leu Cys Gln Cys Leu
 2165 2170 2175
 Gly Phe Gly Ser Gly His Phe Arg Cys Asp Ser Ser Arg Trp Cys
 2180 2185 2190
 His Asp Asn Gly Val Asn Tyr Lys Ile Gly Glu Lys Trp Asp Arg
 2195 2200 2205
 Gln Gly Glu Asn Gly Gln Met Met Ser Cys Thr Cys Leu Gly Asn
 2210 2215 2220
 Gly Lys Gly Glu Phe Lys Cys Asp Pro His Glu Ala Thr Cys Tyr
 2225 2230 2235
 Asp Asp Gly Lys Thr Tyr His Val Gly Glu Gln Trp Gln Lys Glu
 2240 2245 2250

5185.ST25.txt

Tyr Leu Gly Ala Ile Cys Ser Cys Thr Cys Phe Gly Gly Gln Arg
2255 2260 2265

Gly Trp Arg Cys Asp Asn Cys Arg Arg Pro Gly Gly Glu Pro Ser
2270 2275 2280

Pro Glu Gly Thr Thr Gly Gln Ser Tyr Asn Gln Tyr Ser Gln Arg
2285 2290 2295

Tyr His Gln Arg Thr Asn Thr Asn Val Asn Cys Pro Ile Glu Cys
2300 2305 2310

Phe Met Pro Leu Asp Val Gln Ala Asp Arg Glu Asp Ser Arg Glu
2315 2320 2325

<210> 33
<211> 280
<212> PRT
<213> Homo sapiens

<400> 33

Met Leu Ser Ala Val Ala Arg Gly Tyr Gln Gly Trp Phe His Pro Cys
1 5 10 15

Ala Arg Leu Ser Val Arg Met Ser Ser Thr Gly Ile Asp Arg Lys Gly
20 25 30

Val Leu Ala Asn Arg Val Ala Val Val Thr Gly Ser Thr Ser Gly Ile
35 40 45

Gly Phe Ala Ile Ala Arg Arg Leu Ala Arg Asp Gly Ala His Val Val
50 55 60

Ile Ser Ser Arg Lys Gln Gln Asn Val Asp Arg Ala Met Ala Lys Leu
65 70 75 80

Gln Gly Glu Gly Leu Ser Val Ala Gly Ile Val Cys His Val Gly Lys
85 90 95

Ala Glu Asp Arg Glu Gln Leu Val Ala Lys Ala Leu Glu His Cys Gly
100 105 110

Gly Val Asp Phe Leu Val Cys Ser Ala Gly Val Asn Pro Leu Val Gly
115 120 125

Ser Thr Leu Gly Thr Ser Glu Gln Ile Trp Asp Lys Ile Leu Ser Val
130 135 140

5185.ST25.txt

Asn Val Lys Ser Pro Ala Leu Leu Leu Ser Gln Leu Leu Pro Tyr Met
145 150 155 160

Glu Asn Arg Arg Gly Ala Val Ile Leu Val Ser Ser Ile Ala Ala Tyr
165 170 175

Asn Pro Val Val Ala Leu Gly Val Tyr Asn Val Ser Lys Thr Ala Leu
180 185 190

Leu Gly Leu Thr Arg Thr Leu Ala Leu Glu Leu Ala Pro Lys Asp Ile
195 200 205

Arg Val Asn Cys Val Val Pro Gly Ile Ile Lys Thr Asp Phe Ser Lys
210 215 220

Val Phe His Gly Asn Glu Ser Leu Trp Lys Asn Phe Lys Glu His His
225 230 235 240

Gln Leu Gln Arg Ile Gly Glu Ser Glu Asp Cys Ala Gly Ile Val Ser
245 250 255

Phe Leu Cys Ser Pro Asp Ala Ser Tyr Val Asn Gly Glu Asn Ile Ala
260 265 270

Val Ala Gly Tyr Ser Thr Arg Leu
275 280

<210> 34
<211> 433
<212> PRT
<213> Homo sapiens

<400> 34

Met Ala Leu Arg Val Thr Arg Asn Ser Lys Ile Asn Ala Glu Asn Lys
1 5 10 15

Ala Lys Ile Asn Met Ala Gly Ala Lys Arg Val Pro Thr Ala Pro Ala
20 25 30

Ala Thr Ser Lys Pro Gly Leu Arg Pro Arg Thr Ala Leu Gly Asp Ile
35 40 45

Gly Asn Lys Val Ser Glu Gln Leu Gln Ala Lys Met Pro Met Lys Lys
50 55 60

Glu Ala Lys Pro Ser Ala Thr Gly Lys Val Ile Asp Lys Lys Leu Pro
65 70 75 80

5185.ST25.txt

Lys Pro Leu Glu Lys Val Pro Met Leu Val Pro Val Pro Val Ser Glu
 85 90 95
 Pro Val Pro Glu Pro Glu Pro Glu Pro Glu Pro Glu Pro Val Lys Glu
 100 105 110
 Glu Lys Leu Ser Pro Glu Pro Ile Leu Val Asp Thr Ala Ser Pro Ser
 115 120 125
 Pro Met Glu Thr Ser Gly Cys Ala Pro Ala Glu Glu Asp Leu Cys Gln
 130 135 140
 Ala Phe Ser Asp Val Ile Leu Ala Val Asn Asp Val Asp Ala Glu Asp
 145 150 155 160
 Gly Ala Asp Pro Asn Leu Cys Ser Glu Tyr Val Lys Asp Ile Tyr Ala
 165 170 175
 Tyr Leu Arg Gln Leu Glu Glu Glu Gln Ala Val Arg Pro Lys Tyr Leu
 180 185 190
 Leu Gly Arg Glu Val Thr Gly Asn Met Arg Ala Ile Leu Ile Asp Trp
 195 200 205
 Leu Val Gln Val Gln Met Lys Phe Arg Leu Leu Gln Glu Thr Met Tyr
 210 215 220
 Met Thr Val Ser Ile Ile Asp Arg Phe Met Gln Asn Asn Cys Val Pro
 225 230 235 240
 Lys Lys Met Leu Gln Leu Val Gly Val Thr Ala Met Phe Ile Ala Ser
 245 250 255
 Lys Tyr Glu Glu Met Tyr Pro Pro Glu Ile Gly Asp Phe Ala Phe Val
 260 265 270
 Thr Asp Asn Thr Tyr Thr Lys His Gln Ile Arg Gln Met Glu Met Lys
 275 280 285
 Ile Leu Arg Ala Leu Asn Phe Gly Leu Gly Arg Pro Leu Pro Leu His
 290 295 300
 Phe Leu Arg Arg Ala Ser Lys Ile Gly Glu Val Asp Val Glu Gln His
 305 310 315 320
 Thr Leu Ala Lys Tyr Leu Met Glu Leu Thr Met Leu Asp Tyr Asp Met
 325 330 335

5185.ST25.txt

Val His Phe Pro Pro Ser Gln Ile Ala Ala Gly Ala Phe Cys Leu Ala
340 345 350

Leu Lys Ile Leu Asp Asn Gly Glu Trp Thr Pro Thr Leu Gln His Tyr
355 360 365

Leu Ser Tyr Thr Glu Glu Ser Leu Leu Pro Val Met Gln His Leu Ala
370 375 380

Lys Asn Val Val Met Val Asn Gln Gly Leu Thr Lys His Met Thr Val
385 390 400

Lys Asn Lys Tyr Ala Thr Ser Lys His Ala Lys Ile Ser Thr Leu Pro
405 410 415

Gln Leu Asn Ser Ala Leu Val Gln Asp Leu Ala Lys Ala Val Ala Lys
420 425 430

Val

<210> 35
<211> 1078
<212> PRT
<213> Homo sapiens

<400> 35

Met Ala Pro Arg Lys Arg Gly Gly Arg Gly Ile Ser Phe Ile Phe Cys
1 5 10 15

Cys Phe Arg Asn Asn Asp His Pro Glu Ile Thr Tyr Arg Leu Arg Asn
20 25 30

Asp Ser Asn Phe Ala Leu Gln Thr Met Glu Pro Ala Leu Pro Met Pro
35 40 45

Pro Val Glu Glu Leu Asp Val Met Phe Ser Glu Leu Val Asp Glu Leu
50 55 60

Asp Leu Thr Asp Lys His Arg Glu Ala Met Phe Ala Leu Pro Ala Glu
65 70 75 80

Lys Lys Trp Gln Ile Tyr Cys Ser Lys Lys Lys Asp Gln Glu Glu Asn
85 90 95

Lys Gly Ala Thr Ser Trp Pro Glu Phe Tyr Ile Asp Gln Leu Asn Ser
100 105 110

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Met Ala Ala Arg Lys Ser Leu Leu Ala Leu Glu Lys Glu Glu Glu Glu
115 120 125

Glu Arg Ser Lys Thr Ile Glu Ser Leu Lys Thr Ala Leu Arg Thr Lys
130 135 140

Pro Met Arg Phe Val Thr Arg Phe Ile Asp Leu Asp Gly Leu Ser Cys
145 150 155 160

Ile Leu Asn Phe Leu Lys Thr Met Asp Tyr Glu Thr Ser Glu Ser Arg
165 170 175

Ile His Thr Ser Leu Ile Gly Cys Ile Lys Ala Leu Met Asn Asn Ser
180 185 190

Gln Gly Arg Ala His Val Leu Ala His Ser Glu Ser Ile Asn Val Ile
195 200 205

Ala Gln Ser Leu Ser Thr Glu Asn Ile Lys Thr Lys Val Ala Val Leu
210 215 220

Glu Ile Leu Gly Ala Val Cys Leu Val Pro Gly Gly His Lys Lys Val
225 230 235 240

Leu Gln Ala Met Leu His Tyr Gln Lys Tyr Ala Ser Glu Arg Thr Arg
245 250 255

Phe Gln Thr Leu Ile Asn Asp Leu Asp Lys Ser Thr Gly Arg Tyr Arg
260 265 270

Asp Glu Val Ser Leu Lys Thr Ala Ile Met Ser Phe Ile Asn Ala Val
275 280 285

Leu Ser Gln Gly Ala Gly Val Glu Ser Leu Asp Phe Arg Leu His Leu
290 295 300

Arg Tyr Glu Phe Leu Met Leu Gly Ile Gln Pro Val Ile Asp Lys Leu
305 310 315 320

Arg Glu His Glu Asn Ser Thr Leu Asp Arg His Leu Asp Phe Phe Glu
325 330 335

Met Leu Arg Asn Glu Asp Glu Leu Glu Phe Ala Lys Arg Phe Glu Leu
340 345 350

Val His Ile Asp Thr Lys Ser Ala Thr Gln Met Phe Glu Leu Thr Arg

355

360

365

Lys Arg Leu Thr His Ser Glu Ala Tyr Pro His Phe Met Ser Ile Leu
 370 375 380

His His Cys Leu Gln Met Pro Tyr Lys Arg Ser Gly Asn Thr Val Gln
 385 390 395 400

Tyr Trp Leu Leu Leu Asp Arg Ile Ile Gln Gln Ile Val Ile Gln Asn
 405 410 415

Asp Lys Gly Gln Asp Pro Asp Ser Thr Pro Leu Glu Asn Phe Asn Ile
 420 425 430

Lys Asn Val Val Arg Met Leu Val Asn Glu Asn Glu Val Lys Gln Trp
 435 440 445

Lys Glu Gln Ala Glu Lys Met Arg Lys Glu His Asn Glu Leu Gln Gln
 450 455 460

Lys Leu Glu Lys Lys Glu Arg Glu Cys Asp Ala Lys Thr Gln Glu Lys
 465 470 475 480

Glu Glu Met Met Gln Thr Leu Asn Lys Met Lys Glu Lys Leu Glu Lys
 485 490 495

Glu Thr Thr Glu His Lys Gln Val Lys Gln Gln Val Ala Asp Leu Thr
 500 505 510

Ala Gln Leu His Glu Leu Ser Arg Arg Ala Val Cys Ala Ser Ile Pro
 515 520 525

Gly Gly Pro Ser Pro Gly Ala Pro Gly Gly Pro Phe Pro Ser Ser Val
 530 535 540

Pro Gly Ser Leu Leu Pro Pro Pro Pro Pro Pro Pro Leu Pro Gly Gly
 545 550 555 560

Met Leu Pro Pro Pro Pro Pro Pro Leu Pro Pro Gly Gly Pro Pro Pro
 565 570 575

Pro Pro Gly Pro Pro Pro Leu Gly Ala Ile Met Pro Pro Pro Gly Ala
 580 585 590

Pro Met Gly Leu Ala Leu Lys Lys Lys Ser Ile Pro Gln Pro Thr Asn
 595 600 605

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Ala Leu Lys Ser Phe Asn Trp Ser Lys Leu Pro Glu Asn Lys Leu Glu
 610 615 620
 Gly Thr Val Trp Thr Glu Ile Asp Asp Thr Lys Val Phe Lys Ile Leu
 625 630 635 640
 Asp Leu Glu Asp Leu Glu Arg Thr Phe Ser Ala Tyr Gln Arg Gln Gln
 645 650 655
 Asp Phe Phe Val Asn Ser Asn Ser Lys Gln Lys Glu Ala Asp Ala Ile
 660 665 670
 Asp Asp Thr Leu Ser Ser Lys Leu Lys Val Lys Glu Leu Ser Val Ile
 675 680 685
 Asp Gly Arg Arg Ala Gln Asn Cys Asn Ile Leu Leu Ser Arg Leu Lys
 690 695 700
 Leu Ser Asn Asp Glu Ile Lys Arg Ala Ile Leu Thr Met Asp Glu Gln
 705 710 715 720
 Glu Asp Leu Pro Lys Asp Met Leu Glu Gln Leu Leu Lys Phe Val Pro
 725 730 735
 Glu Lys Ser Asp Ile Asp Leu Leu Glu Glu His Lys His Glu Leu Asp
 740 745 750
 Arg Met Ala Lys Ala Asp Arg Phe Leu Phe Glu Met Ser Arg Ile Asn
 755 760 765
 His Tyr Gln Gln Arg Leu Gln Ser Leu Tyr Phe Lys Lys Lys Phe Ala
 770 775 780
 Glu Arg Val Ala Glu Val Lys Pro Lys Val Glu Ala Ile Arg Ser Gly
 785 790 795 800
 Ser Glu Glu Val Phe Arg Ser Gly Ala Leu Lys Gln Leu Leu Glu Val
 805 810 815
 Val Leu Ala Phe Gly Asn Tyr Met Asn Lys Gly Gln Arg Gly Asn Ala
 820 825 830
 Tyr Gly Phe Lys Ile Ser Ser Leu Asn Lys Ile Ala Asp Thr Lys Ser
 835 840 845
 Ser Ile Asp Lys Asn Ile Thr Leu Leu His Tyr Leu Ile Thr Ile Val
 850 855 860

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Glu Asn Lys Tyr Pro Ser Val Leu Asn Leu Asn Glu Glu Leu Arg Asp
865 870 875 880

Ile Pro Gln Ala Ala Lys Val Asn Met Thr Glu Leu Asp Lys Glu Ile
885 890 895

Ser Thr Leu Arg Ser Gly Leu Lys Ala Val Glu Thr Glu Leu Glu Tyr
900 905 910

Gln Lys Ser Gln Pro Pro Gln Pro Gly Asp Lys Phe Val Ser Val Val
915 920 925

Ser Gln Phe Ile Thr Val Ala Ser Phe Ser Phe Ser Asp Val Glu Asp
930 935 940

Leu Leu Ala Glu Ala Lys Asp Leu Phe Thr Lys Ala Val Lys His Phe
945 950 955 960

Gly Glu Glu Ala Gly Lys Ile Gln Pro Asp Glu Phe Phe Gly Ile Phe
965 970 975

Asp Gln Phe Leu Gln Ala Val Ser Glu Ala Lys Gln Glu Asn Glu Asn
980 985 990

Met Arg Lys Lys Lys Glu Glu Glu Glu Arg Arg Ala Arg Met Glu Ala
995 1000 1005

Gln Leu Lys Glu Gln Arg Glu Arg Glu Arg Lys Met Arg Lys Ala
1010 1015 1020

Lys Glu Asn Ser Glu Glu Ser Gly Glu Phe Asp Asp Leu Val Ser
1025 1030 1035

Ala Leu Arg Ser Gly Glu Val Phe Asp Lys Asp Leu Ser Lys Leu
1040 1045 1050

Lys Arg Asn Arg Lys Arg Ile Thr Asn Gln Met Thr Asp Ser Ser
1055 1060 1065

Arg Glu Arg Pro Ile Thr Lys Leu Asn Phe
1070 1075

<210> 36
<211> 179
<212> PRT
<213> Homo sapiens

<400> 36

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Met Val Leu Ala Trp Tyr Met Asp Asp Ala Pro Gly Asp Pro Arg Gln
1 5 10 15

Pro His Arg Pro Asp Pro Gly Arg Pro Val Gly Leu Glu Gln Leu Arg
20 25 30

Arg Leu Gly Val Leu Tyr Trp Lys Leu Asp Ala Asp Lys Tyr Glu Asn
35 40 45

Asp Pro Glu Leu Glu Lys Ile Arg Arg Glu Arg Asn Tyr Ser Trp Met
50 55 60

Asp Ile Ile Thr Ile Cys Lys Asp Lys Leu Pro Asn Tyr Glu Glu Lys
65 70 75 80

Ile Lys Met Phe Tyr Glu Glu His Leu His Leu Asp Asp Glu Ile Arg
85 90 95

Tyr Ile Leu Asp Gly Ser Gly Tyr Phe Asp Val Arg Asp Lys Glu Asp
100 105 110

Gln Trp Ile Arg Ile Phe Met Glu Lys Gly Asp Met Val Thr Leu Pro
115 120 125

Ala Gly Ile Tyr His Arg Phe Thr Val Asp Glu Lys Asn Tyr Thr Lys
130 135 140

Ala Met Arg Leu Phe Val Gly Glu Pro Val Trp Thr Ala Tyr Asn Arg
145 150 155 160

Pro Ala Asp His Phe Glu Ala Arg Gly Gln Tyr Val Lys Phe Leu Ala
165 170 175

Gln Thr Ala

<210> 37
<211> 142
<212> PRT
<213> Homo sapiens

<400> 37

Met Gly Ala Pro Thr Leu Pro Pro Ala Trp Gln Pro Phe Leu Lys Asp
1 5 10 15

His Arg Ile Ser Thr Phe Lys Asn Trp Pro Phe Leu Glu Gly Cys Ala
20 25 30

5185.ST25.txt

Cys Thr Pro Glu Arg Met Ala Glu Ala Gly Phe Ile His Cys Pro Thr
 35 40 45
 Glu Asn Glu Pro Asp Leu Ala Gln Cys Phe Phe Cys Phe Lys Glu Leu
 50 55 60
 Glu Gly Trp Glu Pro Asp Asp Asp Pro Ile Glu Glu His Lys Lys His
 65 70 75 80
 Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys Gln Phe Glu Glu Leu
 85 90 95
 Thr Leu Gly Glu Phe Leu Lys Leu Asp Arg Glu Arg Ala Lys Asn Lys
 100 105 110
 Ile Ala Lys Glu Thr Asn Asn Lys Lys Lys Glu Phe Glu Glu Thr Ala
 115 120 125
 Lys Lys Val Arg Arg Ala Ile Glu Gln Leu Ala Ala Met Asp
 130 135 140